

**ECONOMIC AND FISCAL IMPACT STATEMENT  
(REGULATIONS AND ORDERS)**

STD. 399 (REV. 12/2013)

**ECONOMIC IMPACT STATEMENT**

DEPARTMENT NAME <b>Toxic Substances Control</b>	CONTACT PERSON <b>Chosu Khin</b>	EMAIL ADDRESS <b>chosu.khin@dtsc.ca.gov</b>	TELEPHONE NUMBER <b>916-324-2428</b>
DESCRIPTIVE TITLE FROM NOTICE REGISTER OR FORM 400 <b>Photovoltaic Modules (PV modules)- Universal Waste Management</b>			NOTICE FILE NUMBER <b>Z 2019-0409-04</b>

**A. ESTIMATED PRIVATE SECTOR COST IMPACTS** *Include calculations and assumptions in the rulemaking record.*

1. Check the appropriate box(es) below to indicate whether this regulation:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> a. Impacts business and/or employees | <input checked="" type="checkbox"/> e. Imposes reporting requirements   |
| <input type="checkbox"/> b. Impacts small businesses                     | <input type="checkbox"/> f. Imposes prescriptive instead of performance |
| <input type="checkbox"/> c. Impacts jobs or occupations                  | <input type="checkbox"/> g. Impacts individuals                         |
| <input type="checkbox"/> d. Impacts California competitiveness           | <input type="checkbox"/> h. None of the above (Explain below):          |

*If any box in Items 1 a through g is checked, complete this Economic Impact Statement.**If box in Item 1.h. is checked, complete the Fiscal Impact Statement as appropriate.*2. The Toxic Substances Control  
(Agency/Department) estimates that the economic impact of this regulation (which includes the fiscal impact) is:

- ☐ Below \$10 million
- ☒ Between \$10 and \$25 million
- ☐ Between \$25 and \$50 million
- ☐ Over \$50 million *(If the economic impact is over \$50 million, agencies are required to submit a Standardized Regulatory Impact Assessment as specified in Government Code Section 11346.3(c))*

3. Enter the total number of businesses impacted: Approx. 3000Describe the types of businesses (Include nonprofits): PV module manufacturers, installers, developers, service companies (Attach A.3.)Enter the number or percentage of total  
businesses impacted that are small businesses: 98.3%4. Enter the number of businesses that will be created: 8 eliminated: NoneExplain: Assumed one-third of 25 ewaste recyclers interested in managing PVM becomes UW handlers (Atta A.4.)5. Indicate the geographic extent of impacts: ☒ Statewide  
☐ Local or regional (List areas): \_\_\_\_\_6. Enter the number of jobs created: Up to 334 and eliminated: NoneDescribe the types of jobs or occupations impacted: Occupation employed by universal waste (UW) handlers, transporters, materials coordinators, and recycling specialists, as well as administrative support positions. (Attachment A.6.)7. Will the regulation affect the ability of California businesses to compete with  
other states by making it more costly to produce goods or services here? ☐ YES ☒ NOIf YES, explain briefly: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ECONOMIC AND FISCAL IMPACT STATEMENT  
(REGULATIONS AND ORDERS)**

STD 399 (REV. 12/2013)

**ECONOMIC IMPACT STATEMENT (CONTINUED)****B. ESTIMATED COSTS** *Include calculations and assumptions in the rulemaking record.*1. What are the total statewide dollar costs that businesses and individuals may incur to comply with this regulation over its lifetime? \$ 2,008,105a. Initial costs for a small business: \$ 0 Annual ongoing costs: \$ 0 Years: 5b. Initial costs for a typical business: \$ 347 Annual ongoing costs: \$ 49,856 Years: 5c. Initial costs for an individual: \$ None Annual ongoing costs: \$ None Years: 5d. Describe other economic costs that may occur: None2. If multiple industries are impacted, enter the share of total costs for each industry: Not applicable3. If the regulation imposes reporting requirements, enter the annual costs a typical business may incur to comply with these requirements.  
*Include the dollar costs to do programming, record keeping, reporting, and other paperwork, whether or not the paperwork must be submitted.* \$ 17,726 (Att. B3)4. Will this regulation directly impact housing costs? ☐ YES ☒ NO

If YES, enter the annual dollar cost per housing unit: \$ \_\_\_\_\_

Number of units: \_\_\_\_\_

5. Are there comparable Federal regulations? ☐ YES ☒ NOExplain the need for State regulation given the existence or absence of Federal regulations: Attachment B.5.Regulations are proposed in accordance with requirement of Health and Safety Code section 25259Enter any additional costs to businesses and/or individuals that may be due to State - Federal differences: \$ 0**C. ESTIMATED BENEFITS** *Estimation of the dollar value of benefits is not specifically required by rulemaking law, but encouraged.*1. Briefly summarize the benefits of the regulation, which may include among others, the health and welfare of California residents, worker safety and the State's environment: Total savings of \$18,374,823. (Attachment C.1.)The proposed regulation streamlines the collection, recycling, and treatment standards for PV modules to address the management of a hazardous waste that is expected to be generated in large quantities in the future.2. Are the benefits the result of: ☒ specific statutory requirements, or ☐ goals developed by the agency based on broad statutory authority?Explain: Health & Safety Code section 25259 authorizes DTSC to adopt regulations. (Attachment C.2.)3. What are the total statewide benefits from this regulation over its lifetime? \$ 91,874,115 (Attach. C.3.)4. Briefly describe any expansion of businesses currently doing business within the State of California that would result from this regulation: Attachment C.4.E-waste recyclers expressed interest in expanding their businesses to manage PV modules if they are regulated as UW.DTSC has observed creation of e-waste treatment facilities after e-waste was added to California's UW program.**D. ALTERNATIVES TO THE REGULATION** *Include calculations and assumptions in the rulemaking record. Estimation of the dollar value of benefits is not specifically required by rulemaking law, but encouraged.*1. List alternatives considered and describe them below. If no alternatives were considered, explain why not: Attachment D.1.No action alternative and waste exclusion alternative were considered.



**ECONOMIC AND FISCAL IMPACT STATEMENT  
(REGULATIONS AND ORDERS)**

STD. 399 (REV. 12/2013)

**ECONOMIC IMPACT STATEMENT (CONTINUED)**

Summarize the total statewide costs and benefits from this regulation and each alternative considered:

Regulation: Benefit: \$ 91,874,115 Cost: \$ 2,008,105

Alternative 1: Benefit: \$ None Cost: \$ None

Alternative 2: Benefit: \$ N/A Cost: \$ N/A

3. Briefly discuss any quantification issues that are relevant to a comparison of estimated costs and benefits for this regulation or alternatives:

None

4. Rulemaking law requires agencies to consider performance standards as an alternative, if a regulation mandates the use of specific technologies or equipment, or prescribes specific actions or procedures. Were performance standards considered to lower compliance costs? ☒ YES ☐ NO

Explain: This regulation does not mandate the use of specific technologies or equipment. (Attachment D.4.)

**E. MAJOR REGULATIONS** *Include calculations and assumptions in the rulemaking record.*

*California Environmental Protection Agency (Cal/EPA) boards, offices and departments are required to submit the following (per Health and Safety Code section 57005). Otherwise, skip to E4.*

1. Will the estimated costs of this regulation to California business enterprises exceed \$10 million? ☐ YES ☒ NO

*If YES, complete E2. and E3*

*If NO, skip to E4*

Briefly describe each alternative, or combination of alternatives, for which a cost-effectiveness analysis was performed:

Alternative 1: \_\_\_\_\_

Alternative 2: \_\_\_\_\_

*(Attach additional pages for other alternatives)*

3. For the regulation, and each alternative just described, enter the estimated total cost and overall cost-effectiveness ratio:

Regulation: Total Cost \$ \_\_\_\_\_ Cost-effectiveness ratio: \$ \_\_\_\_\_

Alternative 1: Total Cost \$ \_\_\_\_\_ Cost-effectiveness ratio: \$ \_\_\_\_\_

Alternative 2: Total Cost \$ \_\_\_\_\_ Cost-effectiveness ratio: \$ \_\_\_\_\_

4. Will the regulation subject to OAL review have an estimated economic impact to business enterprises and individuals located in or doing business in California exceeding \$50 million in any 12-month period between the date the major regulation is estimated to be filed with the Secretary of State through 12 months after the major regulation is estimated to be fully implemented?

☐ YES ☒ NO

*If YES, agencies are required to submit a Standardized Regulatory Impact Assessment (SRIA) as specified in Government Code Section 11346.3(c) and to include the SRIA in the Initial Statement of Reasons.*

5. Briefly describe the following:

The increase or decrease of investment in the State: \_\_\_\_\_

This regulation could incentivize businesses to develop recycling options (See Attachment E.5.).

The incentive for innovation in products, materials or processes: Attachment E.5.

This regulation could incentivize businesses to develop recycling options for PV modules.

The benefits of the regulations, including, but not limited to, benefits to the health, safety, and welfare of California residents, worker safety, and the state's environment and quality of life, among any other benefits identified by the agency: \_\_\_\_\_

This regulation will increase protection of public health & the environment (See Attachment E.5.).

**ECONOMIC AND FISCAL IMPACT STATEMENT  
(REGULATIONS AND ORDERS)**

STD. 389 (REV. 12/2013)

**FISCAL IMPACT STATEMENT****A. FISCAL EFFECT ON LOCAL GOVERNMENT** *Indicate appropriate boxes 1 through 6 and attach calculations and assumptions of fiscal impact for the current year and two subsequent Fiscal Years.*

- ☐ 1. Additional expenditures in the current State Fiscal Year which are reimbursable by the State. (Approximate)  
(Pursuant to Section 6 of Article XIII B of the California Constitution and Sections 17500 et seq. of the Government Code).

\$ \_\_\_\_\_

- ☐ a. Funding provided in \_\_\_\_\_  
Budget Act of \_\_\_\_\_ or Chapter \_\_\_\_\_, Statutes of \_\_\_\_\_

- ☐ b. Funding will be requested in the Governor's Budget Act of \_\_\_\_\_  
Fiscal Year: \_\_\_\_\_

- ☐ 2. Additional expenditures in the current State Fiscal Year which are NOT reimbursable by the State. (Approximate)  
(Pursuant to Section 6 of Article XIII B of the California Constitution and Sections 17500 et seq. of the Government Code).

\$ \_\_\_\_\_

Check reason(s) this regulation is not reimbursable and provide the appropriate information:

- ☐ a. Implements the Federal mandate contained in \_\_\_\_\_
- ☐ b. Implements the court mandate set forth by the \_\_\_\_\_ Court.

Case of: \_\_\_\_\_ vs. \_\_\_\_\_

- ☐ c. Implements a mandate of the people of this State expressed in their approval of Proposition No. \_\_\_\_\_

Date of Election: \_\_\_\_\_

- ☐ d. Issued only in response to a specific request from affected local entity(s).

Local entity(s) affected: \_\_\_\_\_

- ☐ e. Will be fully financed from the fees, revenue, etc. from: \_\_\_\_\_

Authorized by Section: \_\_\_\_\_ of the \_\_\_\_\_ Code;

- ☐ f. Provides for savings to each affected unit of local government which will, at a minimum, offset any additional costs to each;

- ☐ g. Creates, eliminates, or changes the penalty for a new crime or infraction contained in \_\_\_\_\_

- ☐ 3. Annual Savings. (approximate)

\$ \_\_\_\_\_

- ☐ 4. No additional costs or savings. This regulation makes only technical, non-substantive or clarifying changes to current law regulations.

- ☒ 5. No fiscal impact exists. This regulation does not affect any local entity or program.

- ☐ 6. Other. Explain \_\_\_\_\_

**ECONOMIC AND FISCAL IMPACT STATEMENT  
(REGULATIONS AND ORDERS)**

STD. 399 (REV. 12/2013)

**FISCAL IMPACT STATEMENT (CONTINUED)****FISCAL EFFECT ON STATE GOVERNMENT** *Indicate appropriate boxes 1 through 4 and attach calculations and assumptions of fiscal impact for the current year and two subsequent Fiscal Years.*☐ 1. Additional expenditures in the current State Fiscal Year. (Approximate)

\$ \_\_\_\_\_

*It is anticipated that State agencies will:*☐ a. Absorb these additional costs within their existing budgets and resources.☐ b. Increase the currently authorized budget level for the \_\_\_\_\_ Fiscal Year☐ 2. Savings in the current State Fiscal Year. (Approximate)

\$ \_\_\_\_\_

☐ 3. No fiscal impact exists. This regulation does not affect any State agency or program.☒ 4. Other. Explain Loss of revenue \$947,717\*3 from fees if PV modules were managed as hazardous waste (HW) under full HW regulations, and DTSC personnel costs of \$457,553 for the current and subsequent 2 yrs of regulation(Attach B.4)**C. FISCAL EFFECT ON FEDERAL FUNDING OF STATE PROGRAMS** *Indicate appropriate boxes 1 through 4 and attach calculations and assumptions of fiscal impact for the current year and two subsequent Fiscal Years.*☐ 1. Additional expenditures in the current State Fiscal Year. (Approximate)

\$ \_\_\_\_\_

☐ 2. Savings in the current State Fiscal Year. (Approximate)

\$ \_\_\_\_\_

☒ 3. No fiscal impact exists. This regulation does not affect any federally funded State agency or program.☐ 4. Other. Explain \_\_\_\_\_

FISCAL OFFICER SIGNATURE

DATE

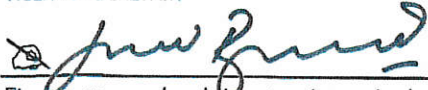


6-29-2020

*The signature attests that the agency has completed the STD. 399 according to the instructions in SAM sections 6601-6616, and understands the impacts of the proposed rulemaking. State boards, offices, or departments not under an Agency Secretary must have the form signed by the highest ranking official in the organization.*

AGENCY SECRETARY

DATE

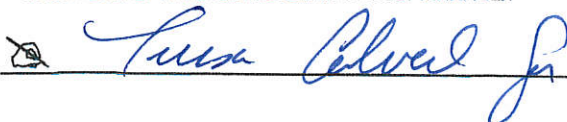


6/30/20

*Finance approval and signature is required when SAM sections 6601-6616 require completion of Fiscal Impact Statement in the STD. 399.*

DEPARTMENT OF FINANCE PROGRAM BUDGET MANAGER

DATE



9/25/2020